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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/903,175	07/11/2001	Kevin Baum	CR00262M	9367
22917 759 MOTOPOLA IN			EXAMINER	
MOTOROLA, INC. 1303 EAST ALGONQUIN ROAD IL01/3RD SCHAUMBURG, IL 60196			KIM, KEVIN	
		•	ART UNIT	PAPER NUMBER
benine wild one			2611	
SHORTENED STATUTORY P	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		12/29/2006	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
Office Action Commence	09/903,175	BAUM ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kevin Y. Kim	2611				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on 18 Oc	ctober 2006					
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,	, <del> _</del>					
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) <u>1-4,7-11,13-17,20-24,26-30,33,35,36,</u>	<u>38,42,44-55,57,59-70,72-74,81,8</u>	35,86 is/are pending in the				
application.						
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5)⊠ Claim(s) <u>1-4,7-11,13-17,20-24,26-30,33,35,36,</u>	5) Claim(s) <u>1-4,7-11,13-17,20-24,26-30,33,35,36,38,42,44,46-55,57,59,61-70,72,74 and 81</u> is/are allowed.					
6)⊠ Claim(s) <u>45,60,73,85 and 86</u> is/are rejected.	6)⊠ Claim(s) <u>45,60,73,85 and 86</u> is/are rejected.					
	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119	•					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
B) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application  6) Other:						
Paper No(s)/Mail Date 6)						

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## **DETAILED ACTION**

## Response to Amendment

1. The indicated allowability of claims 45 and 60 is withdrawn upon a review of the disclosure of the present invention because the claimed invention is found not adequately described as explained below. Claims 73, 85 and 86 including the same subject matter are rejected for the same ground.

## Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 45,60,73,85 and 86 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claims 45,60,73,85 and 86 include the limitation that "the received samples including cyclic redundancy are converted into the plurality of frequency domain samples." However, the specification teaches the contrary. At page 11, lines 16-20 and page 13, lines 10-12, the specification describes discarding the cyclic redundancy before the received samples are fed to the DFT, which converts input samples into frequency domain samples. The removal of cyclic redundancy *prior to* the frequency domain conversion is also depicted in Figs.3 and 4. See the

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block labeled 320 in each Figure. Thus, the specification fails to adequately describes the

claimed invention defined in claims 45,60,73,85 and 86.

Allowable Subject Matter

4. Claims 1-4,7-11,13-17,20-24, 26-30,33,35,36,38,42,44,46-55,57,59,61-70,72, 74,81 are

allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be

directed to Kevin Y. Kim whose telephone number is 571-272-3039. The examiner can normally be reached on

8AM --5PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be

reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is

assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information

Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR

or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more

information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the

Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like

assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-

786-9199 (IN USA OR CANADA) or 571-272-1000.

December 23, 2006

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KEVIN KIM
PRIMARY PATENT EXAMINER

11. 1h 1/23/06